

Alexander Lowther

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[Github.com/alexander-lowther](https://github.com/alexander-lowther) ❖ alexander-lowther.github.io

EDUCATION

Purdue University Northwest

Graduation Spring 2022

BS in Computer Science, minor in Applied Mathematics

- Spent two years studying Business Management, began Computer Science in 2018

NOTABLE CLASSES AND PROJECTS

- **Database Systems**; Drawing relational database diagrams and implementing them using SQL
- **Operating Systems (Systems Programming)**; Implemented a Windows process scheduler (CMD program that launches processes for x amount of time in a user specified order and displays which CPU the process is running on); also implemented a launcher that prompts the user to launch from a list of Windows programs. Done by using Windows APIs
- **Programming Languages**; ML functional programming language; I learned pattern matching and the implementation of functional (rather than object oriented) functions
- **Data Structures**; Implemented a quadratic formula calculator in Java
- **Interactive Computer Graphics Systems**; Event driven programming; using Java GUIs to manipulate graphics; learn about rendering algorithms; 3D graphics pipeline; Open GL 4;
Wrote a Java program to instantiate a framebuffer where I flipped images, blended pixels and “drew” shapes & patterns. I also created an interactive display using Java
- **Automata and Computability**; Finite State Machines (deterministic and non-deterministic)
- Differential Equations, Organizational Leadership, Accounting, Multivariate Calculus, Computer Architecture and Assembly Language (in MIPS)

SKILLS & INTERESTS

- **Skills**: Proficient in Java, C, C++, and Swift programming; HTML & CSS with a basic understanding of JavaScript (along with ML knowledge); creativity; problem-solving; active listening; inquisitive; never reluctant to communicate misunderstandings
- **Interests**: Poker; astronomy; stocks & ETFs; spending time with family and friends

WORK EXPERIENCE

Gig Economy Driver

May 2021 – Present

Schlusser Environmental Control

Environmental Contractor

East Chicago, IN

June 2020 – May 2021

- At SEC, I provided crucial information to the foreman in an effort to maintain optimal efficiency in the machines that contribute to the fuel making process. Other responsibilities of mine at SEC was to report emissions to the EPA, smoke read, and perform regular inspections on industrial ovens

Blue Chip Hotel & Casino

Bellperson

Michigan City, IN

June 2015 – March 2020

